

SOUTH PRAIRIE CREEK FLOODPLAIN RESTORATION PROJECT



ACTIONS TO BE FUNDED

- Installation of 12 large and small main channel structures
- Connection of 2600 feet of historic floodplain channel
- Installation of 30-40 floodplain wood structures
- Demolition of 6 to 10 buildings and one bridge crossing
- Re-vegetation of 63 acres

DESIGN FUNDING SECURED

\$359,850

PHASE 1 ESTIMATE

\$1,980,000

PHASE 2 ESTIMATE

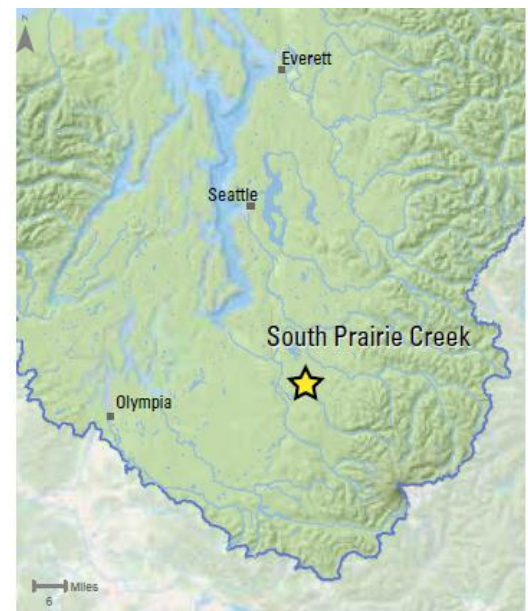
\$1,980,000

TOTAL PROJECT COST

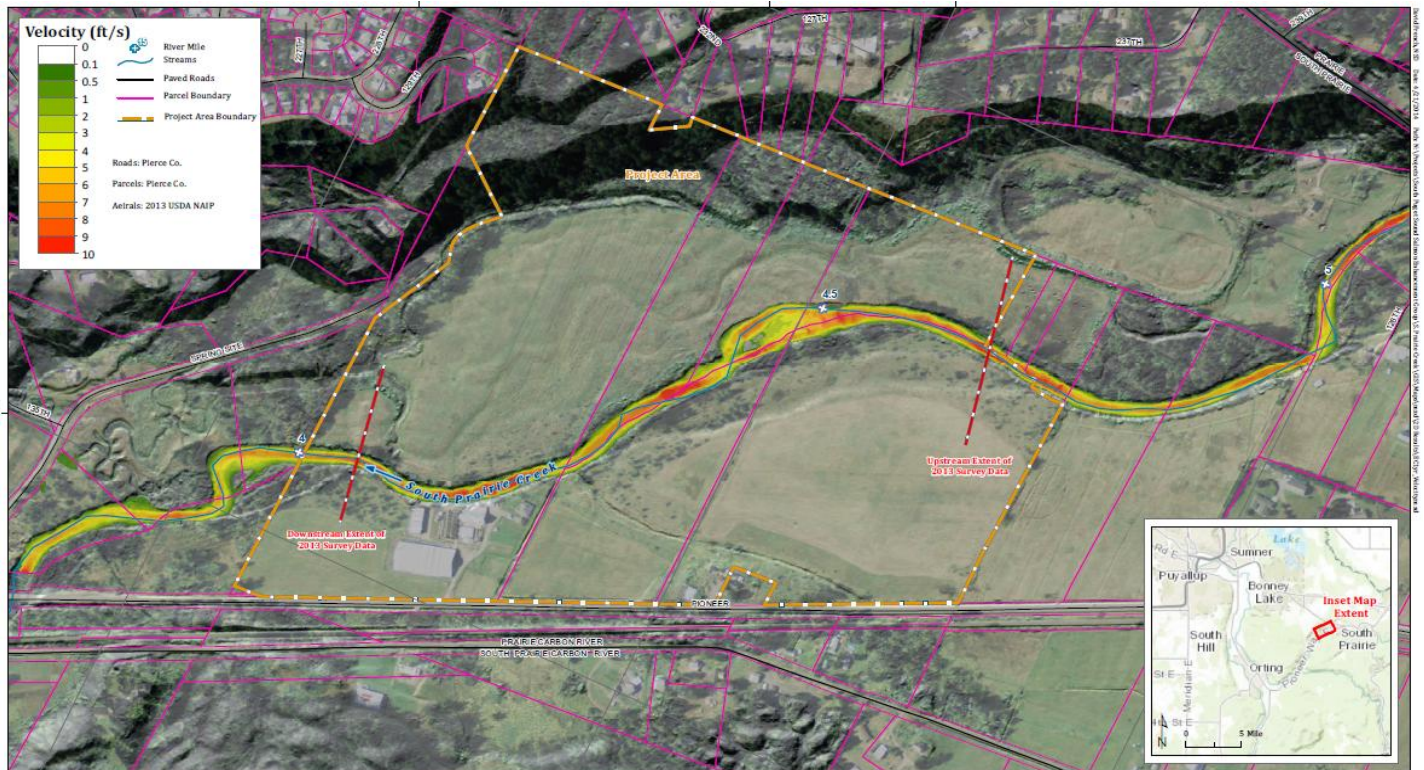
\$4,320,000

PROJECT BENEFITS

- Provides half mile of improved main channel habitat
- Provides half mile of new side channel habitat
- Increases salmon spawning success and egg to smolt survival
- Restores river connectivity to 80 acres of floodplain
- Restores 63 acres of valley bottom forest
- Increases flood storage and groundwater recharge
- Improves water quality and canopy shading



SOUTH PRAIRIE CREEK FLOW MODELING

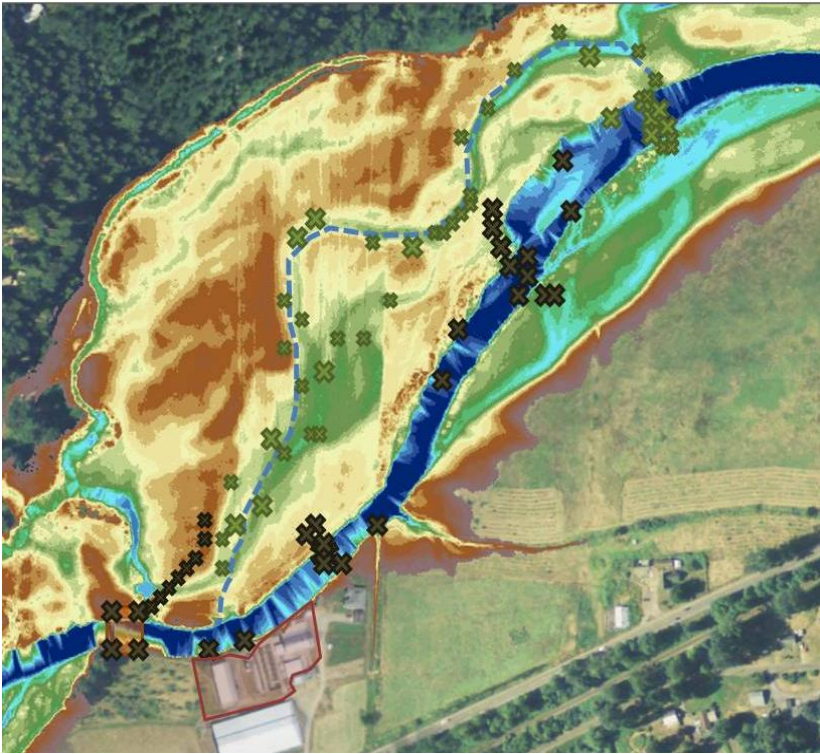


Existing velocities and floodplain connectivity during annual bankful flow events.



Proposed velocities and floodplain connectivity (conceptual rendering- not actual model output) during annual bankful flow events.

SOUTH PRAIRIE CREEK PROJECT SCOPE AND PHASING STRATEGY

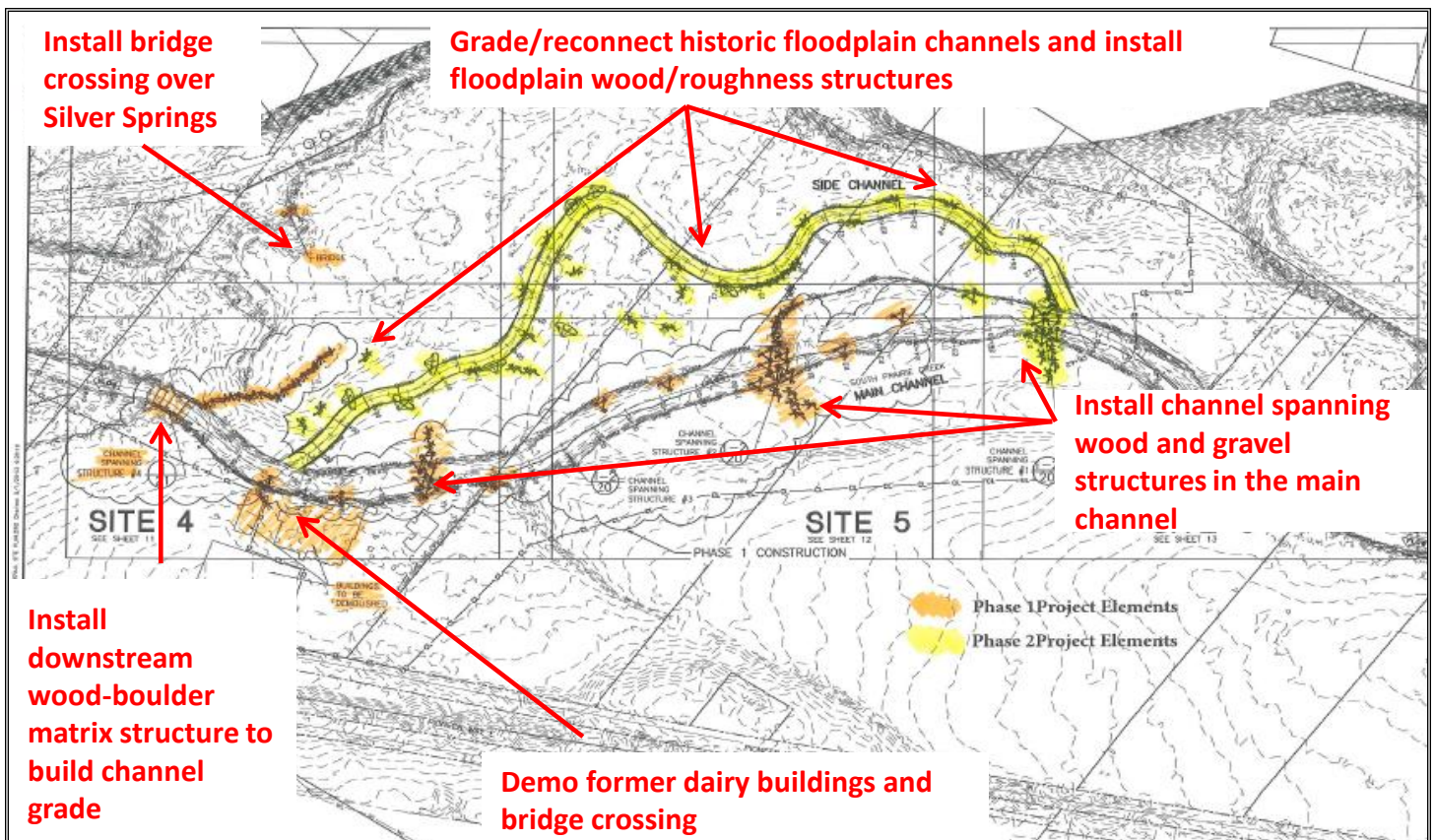


Phase 1 (2016-19)

- Placement of 3 channel spanning wood structures and rock-wood matrix structures
- Placement of 7 mid channel/bank wood structures
- Demolition of remnant dairy buildings and bridge crossing
- Installation of bridge crossing over Silver Springs
- Planting of 18 acres riparian and floodplain forest

Phase 2 (2017-20)

- Removal of accumulated sediments from historic floodplain channels
- Placement of 32 floodplain wood structure
- Placement of 1 channel spanning structure and 1 mid channel structure in the main channel to tie the phase 1 and phase 2 projects together
- Planting of 45 acres of riparian and floodplain forest



SOUTH PRAIRIE CREEK FUNDING STRATEGY

South Prairie Creek Construction Cost Estimate				
Budget Item	QTY	Unit	Unit Cost	Total
Phase 0 Design and Pemit		1LS	359,850	359,850
Phase 1- South Prairie Creek Channel Reconstruction				
Admin, Engineering, and Construction Oversight	0.15	ST	1,626,800	244,020
Cultural Monitoring	1	LS	30000	30,000
Botany Survey and Noxious Weed Control	1	LS	8000	8,000
Mobilization (10%)	0.1	ST	1,248,000	124,800
Channel Spanning Structures	3	EA	105,000	315,000
Mid Channel/Bank Structures	7	EA	36000	252,000
Floodplain Roughness Structures	1	LS	31000	31,000
Demolition of Old Dairy Structures	1	LS	450000	450,000
Bridge Demo and New Access Crossing	1	LS	150000	150,000
Dewatering / Fish removal/TESC	1	LS	50000	50,000
Phase 2 Planting	18	Acre	12000	216,000
Tax (construction only - 7.6%)	0.076	EA	1,372,800	104,333
Total Phase 1 Costs				\$1,975,153
Phase 2 - Floodplain Reconstruction				
Admin, Engineering, and Construction Oversight	0.15	ST	1,660,355	249,053
Cultural Monitoring	1	LS	30000	30,000
Botany Survey and Noxious Weed Control	1	LS	8000	8,000
Mobilization (10%)	0.1	ST	1,053,545	105,355
Construction of Floodplain Channels	50000	CY	11	550,000
Floodplain Wood Structures	32	EA	11000	352,000
Channel Spanning Stucture	1	EA	60000	60,000
Dewatering / Fish removal/TESC	1	LS	15000	15,000
Phase 1 Planting	45	Acre	12000	540,000
Tax (construction only - 7.6%)	0.076	EA	1,007,355	76,559
Total Phase 2 Costs				\$1,985,967
Total				\$4,320,969

Funding Strategy				
Source	Year	Status	Stage	Amount
PSAR Project Development Funds	2013	Secured	30% Design	\$81,850
Puyallup Tribe Grant Funds	2013	Secured	60% Design	\$40,000
Pierce County SWM	2013	Secured	60% Design	\$40,000
Salmon Recovery Fundign Board (SRFB)	2014	Secured	Final Design	\$198,000
PSAR Large Capital Phase 1 and 2	2014	Submitted- Unlikely	Construction	\$3,900,000
Pierce County SWM Phase 1	2015	Secured	Construction	\$100,000
SRFB Phase 1	2015	Pending	Construction	\$1,400,000
USFWS Phase 1	2015	Pending	Construction	\$50,000
Puyallup Tribe Fish Commission Phase 1	2015	Secured	Construction	\$480,000
Ecology Centennial Clean Water	2016	Future	Construction	
Floodplains by Design	2016	Future	Construction	
SRFB Phase 2	2016	Future	Construction	
USFWS Service Phase 2	2016	Future	Construction	
Puyallup Tribe Fish Commission Phase 2	2016	Future	Construction	
PC SWM Phase 2	2016	Future	Construction	
Total Secured				\$939,850
Pending Requests				\$1,450,000
Unfunded Need for Total Project				\$1,931,119